

Title (en)
POSITION SENSOR WITH WAKE UP FUNCTION

Title (de)
POSITIONSENSOR MIT AUFWECKFUNKTION

Title (fr)
CAPTEUR DE POSITION DOTÉ D'UNE FONCTION DE RÉVEIL

Publication
EP 3748304 A1 20201209 (EN)

Application
EP 20177272 A 20200528

Priority
US 201916429620 A 20190603

Abstract (en)
Apparatuses and sensor systems are described with magnetoresistive sensor configurations. The method of detecting a displacement of a magnetic component includes monitoring, via a position sensor operating in a low-powered mode, a magnetic field emitted by a magnetic component. The monitored characteristics of the magnetic field vary based at least in part on a displacement of the magnetic component. The method also includes determining, via the position sensor, whether the monitored characteristics of the magnetic field satisfy an activation criteria. The method further includes increasing the power of the position sensor to a high-powered mode to determine the displacement of the magnetic component upon determining that the monitored characteristics of the magnetic field satisfy the activation criteria. Corresponding position sensing systems are also provided.

IPC 8 full level
G01D 5/14 (2006.01)

CPC (source: CN EP US)
G01B 7/02 (2013.01 - CN); **G01B 7/30** (2013.01 - CN); **G01D 5/142** (2013.01 - US); **G01D 5/145** (2013.01 - EP); **G01D 5/16** (2013.01 - US); **G06F 9/4418** (2013.01 - CN); **G06F 11/3003** (2013.01 - CN); **G06F 11/3058** (2013.01 - CN)

Citation (search report)
• [X1] GB 2453580 A 20090415 - DALMATIC LYSTRUP AS [DK], et al
• [XAI] DE 102012110049 A1 20140424 - MINEBEA CO LTD [JP]
• [XAI] US 2003183024 A1 20031002 - LOHBERG PETER [DE], et al
• [XAI] DE 102011007023 A1 20121011 - BOSCH GMBH ROBERT [DE]

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

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DOCDB simple family (application)
EP 20177272 A 20200528; CN 202010492285 A 20200602; US 201916429620 A 20190603